

## **AMENDMENT TO THE ABSTRACT**

The following abstract will replace all prior versions of the abstract in the application:

### **ABSTRACT**

A process for producing a light absorbing layer for thin-film solar cell that possesses a film structure having a constituent component of chalcopyrite compound ( $\text{Cu(In+Ga)Se}_2$ ) uniformly distributed thereinside. There is provided a process for producing a light absorbing layer, ~~comprising (1)~~including the precursor forming step of superimposing on an Mo electrode layer, adjacent to the electrode layer, an In metal layer and a Cu-Ga alloy layer according to sputtering technique; ~~(2) the a~~ first selenization step of<sub>1</sub> while accommodating precursor-provided substrate ~~(1)~~ in an airtight space, introducing hydrogen selenide gas in the airtight space conditioned so as to range from room temperature to 250°C; ~~(3) the a~~ second selenization step of additionally introducing hydrogen selenide gas in the airtight space heated so as to range from 250° to 450°C; ~~(4) the a~~ third selenization step of<sub>1</sub> while causing the hydrogen selenide gas having been introduced up to the second selenization step to remain, heating the interior of the airtight space so as to range from 450° to 650°C and<sub>1</sub> within this range of temperature, performing heat treatment of the substrate; and ~~(5) the a~~ cooling step of cooling the substrate after the heat treatment.